

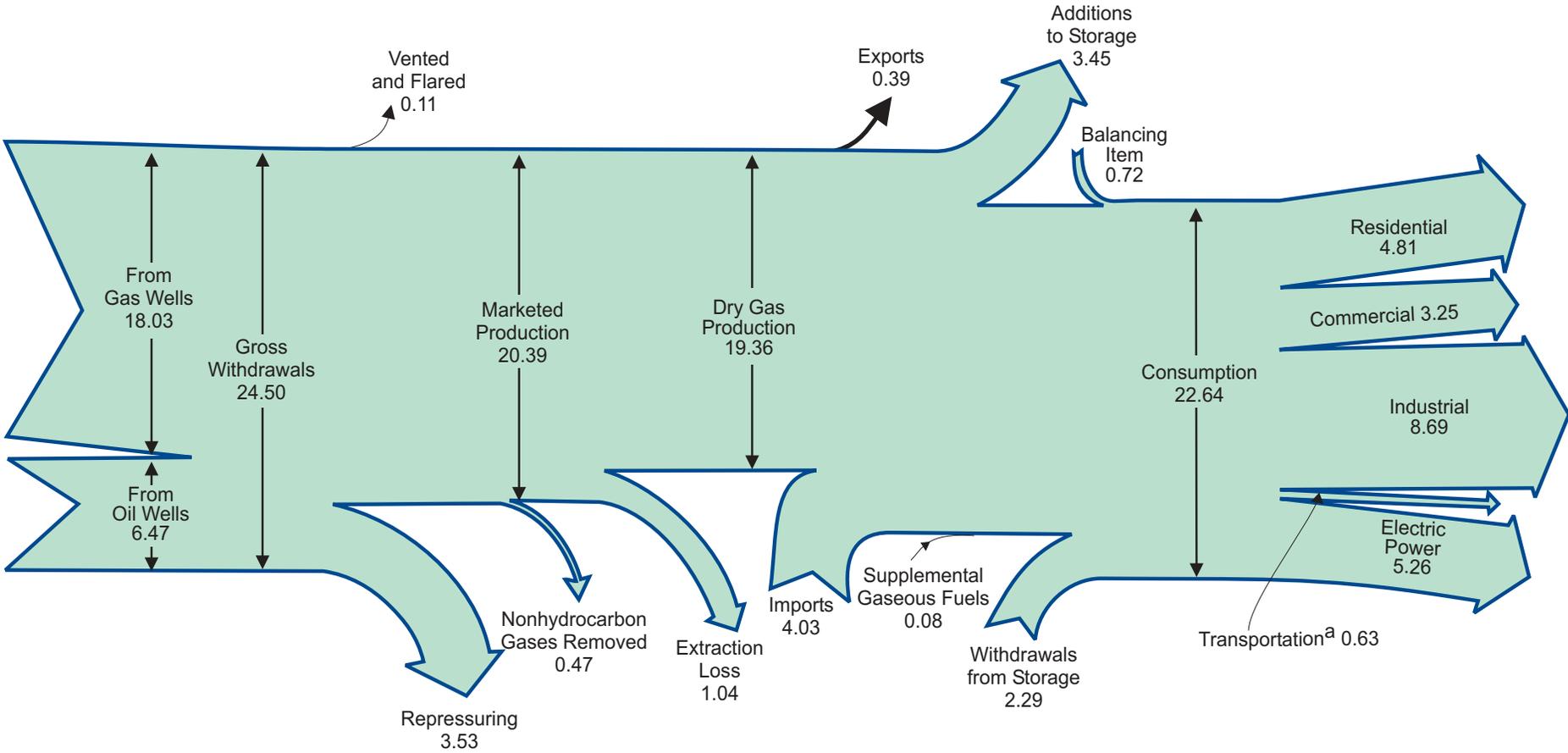
6

Natural Gas



Natural gas pipeline, El Paso County, Texas. Source: U.S. Department of Energy.

Diagram 3. Natural Gas Flow, 2001
(Trillion Cubic Feet)

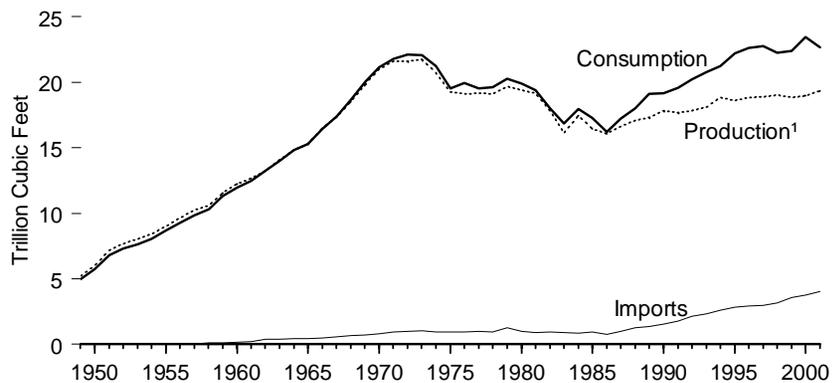


^a Natural gas consumed in the operation of pipelines, primarily in compressors, and a small quantity used as vehicle fuel.

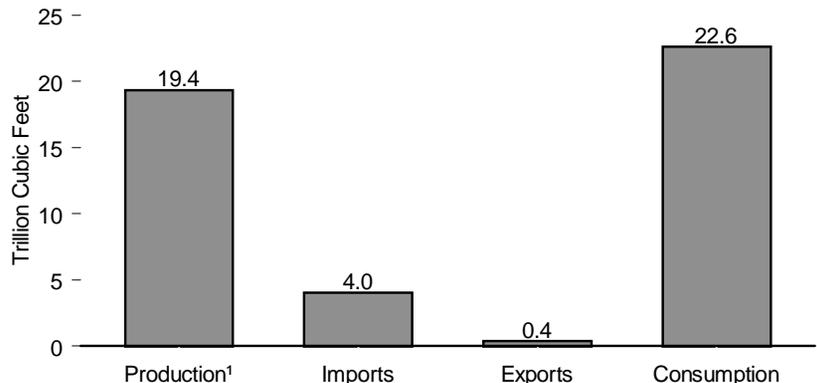
Notes: • Data are preliminary. • Totals may not equal sum of components due to independent rounding.
Sources: Tables 6.1, 6.2, and 6.5.

Figure 6.1 Natural Gas Overview

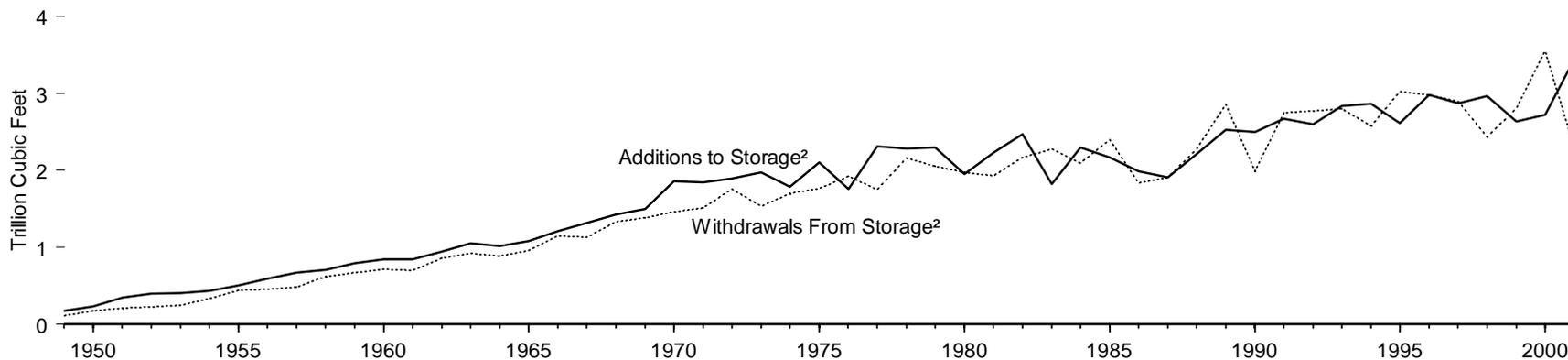
Overview, 1949-2001



Overview, 2001



Storage Additions and Withdrawals, 1949-2001



¹ Dry gas.

² Beginning with 1980, includes liquefied natural gas stored in above-ground tanks.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 6.1.

Table 6.1 Natural Gas Overview, 1949-2001
(Trillion Cubic Feet)

Year	Dry Gas Production	Supplemental Gaseous Fuels	Imports	Exports	Withdrawals From Storage ¹	Additions to Storage ¹	Balancing Item ²	Consumption
1949	5.20	NA	0.00	0.02	0.11	0.17	-0.14	4.97
1950	6.02	NA	0.00	0.03	0.18	0.23	-0.18	5.77
1951	7.16	NA	0.00	0.02	0.21	0.35	-0.19	6.81
1952	7.69	NA	0.01	0.03	0.22	0.40	-0.20	7.29
1953	8.06	NA	0.01	0.03	0.25	0.40	-0.24	7.64
1954	8.39	NA	0.01	0.03	0.33	0.43	-0.22	8.05
1955	9.03	NA	0.01	0.03	0.44	0.51	-0.25	8.69
1956	9.66	NA	0.01	0.04	0.45	0.59	-0.21	9.29
1957	10.25	NA	0.04	0.04	0.48	0.67	-0.21	9.85
1958	10.57	NA	0.14	0.04	0.62	0.70	-0.28	10.30
1959	11.55	NA	0.13	0.02	0.67	0.79	-0.22	11.32
1960	12.23	NA	0.16	0.01	0.71	0.84	-0.27	11.97
1961	12.66	NA	0.22	0.01	0.70	0.84	-0.23	12.49
1962	13.25	NA	0.40	0.02	0.85	0.94	-0.29	13.27
1963	14.08	NA	0.41	0.02	0.92	1.05	-0.36	13.97
1964	14.82	NA	0.44	0.02	0.89	1.01	-0.30	14.81
1965	15.29	NA	0.46	0.03	0.96	1.08	-0.32	15.28
1966	16.47	NA	0.48	0.02	1.14	1.21	-0.40	16.45
1967	17.39	NA	0.56	0.08	1.13	1.32	-0.30	17.39
1968	18.49	NA	0.65	0.09	1.33	1.43	-0.33	18.63
1969	19.83	NA	0.73	0.05	1.38	1.50	-0.33	20.06
1970	21.01	NA	0.82	0.07	1.46	1.86	-0.23	21.14
1971	21.61	NA	0.93	0.08	1.51	1.84	-0.34	21.79
1972	21.62	NA	1.02	0.08	1.76	1.89	-0.33	22.10
1973	21.73	NA	1.03	0.08	1.53	1.97	-0.20	22.05
1974	20.71	NA	0.96	0.08	1.70	1.78	-0.29	21.22
1975	19.24	NA	0.95	0.07	1.76	2.10	-0.24	19.54
1976	19.10	NA	0.96	0.06	1.92	1.76	-0.22	19.95
1977	19.16	NA	1.01	0.06	1.75	2.31	-0.04	19.52
1978	19.12	NA	0.97	0.05	2.16	2.28	-0.29	19.63
1979	19.66	NA	1.25	0.06	2.05	2.30	-0.37	20.24
1980	19.40	0.15	0.98	0.05	1.97	1.95	-0.64	19.88
1981	19.18	0.18	0.90	0.06	1.93	2.23	-0.50	19.40
1982	17.82	0.14	0.93	0.05	2.16	2.47	-0.54	18.00
1983	16.09	0.13	0.92	0.05	2.27	1.82	-0.70	16.83
1984	17.47	0.11	0.84	0.05	2.10	2.30	-0.22	17.95
1985	16.45	0.13	0.95	0.06	2.40	2.16	-0.43	17.28
1986	16.06	0.11	0.75	0.06	1.84	1.98	-0.49	16.22
1987	16.62	0.10	0.99	0.05	1.91	1.91	-0.44	17.21
1988	17.10	0.10	1.29	0.07	2.27	2.21	-0.45	18.03
1989	17.31	0.11	1.38	0.11	2.85	2.53	R0.10	³ R19.12
1990	17.81	0.12	1.53	0.09	1.99	2.50	R0.30	³ R19.16
1991	17.70	0.11	1.77	0.13	2.75	2.67	R0.03	³ R19.56
1992	17.84	0.12	2.14	0.22	2.77	2.60	R0.18	³ R20.23
1993	18.10	0.12	2.35	0.14	2.80	2.83	R0.40	R20.79
1994	18.82	0.11	2.62	0.16	2.58	2.86	R0.14	R21.25
1995	18.60	0.11	2.84	0.15	3.02	2.61	R0.40	R22.21
1996	18.85	0.11	2.94	0.15	2.98	2.98	R0.86	R22.61
1997	18.90	0.10	2.99	0.16	2.89	2.87	R0.87	R22.74
1998	^R 19.02	0.10	3.15	0.16	2.43	2.96	R0.66	R22.24
1999	^R 18.83	0.10	3.59	0.16	^R 2.81	^R 2.64	^R -0.12	^R 22.40
2000	^R 18.99	^R 0.09	^R 3.78	0.24	^R 3.55	^R 2.72	^R 0.02	^R 23.46
2001 ^P	19.36	0.08	4.03	0.39	2.29	3.45	0.72	22.64

¹ Beginning with 1980, includes liquefied natural gas stored in above-ground tanks.

² Quantities lost and imbalances in data due to differences among data sources. Since 1980, excludes intransit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

³ For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 6.5. See Note 3 at end of section under "Table 6.5 Notes."

R=Revised. P=Preliminary. NA=Not available.

Notes: • Beginning with 1965, all volumes are shown on a pressure base of 14.73 p.s.i.a. at 60° F. For

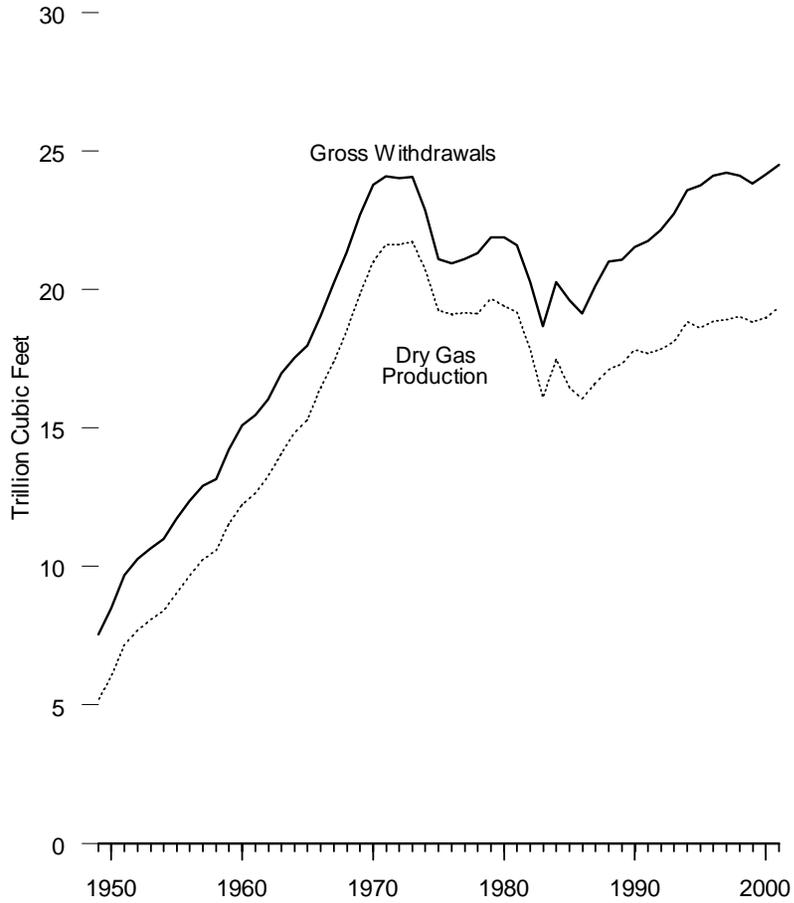
prior years, the pressure base was 14.65 p.s.i.a. at 60° F. • Totals may not equal sum of components due to independent rounding.

Web Page: http://www.eia.doe.gov/oil_gas/natural_gas/info_glance/natural_gas.html.

Sources: **Supplemental Gaseous Fuels:** • 1980-1994—EIA, *Natural Gas Annual*, annual reports. • 1995 forward—EIA, *Natural Gas Monthly* (February 2002), Table 2. **Balancing Item:** Calculated as the sum of consumption, exports, and additions to storage minus dry gas production, supplemental gaseous fuels, imports, and withdrawals from storage. **Consumption:** Table 6.5. **All Other Data:** • 1949-1994—EIA, *Natural Gas Annual 2000* (November 2001), Table 94. • 1995 forward—EIA, *Natural Gas Monthly* (February 2002), Tables 2, 5, 6, and 9.

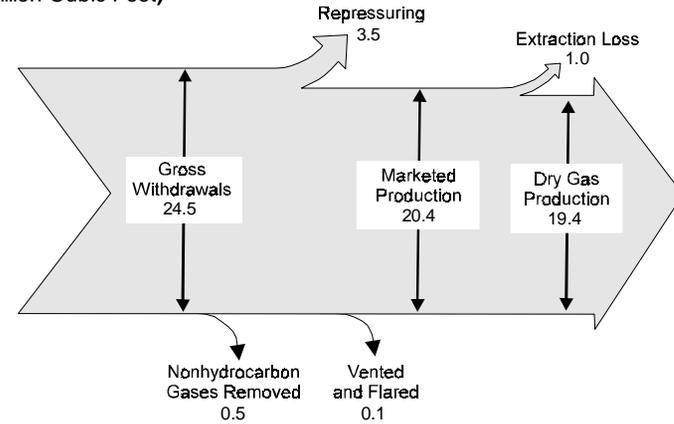
Figure 6.2 Natural Gas Production

Gross Withdrawals and Dry Gas Production, 1949-2001

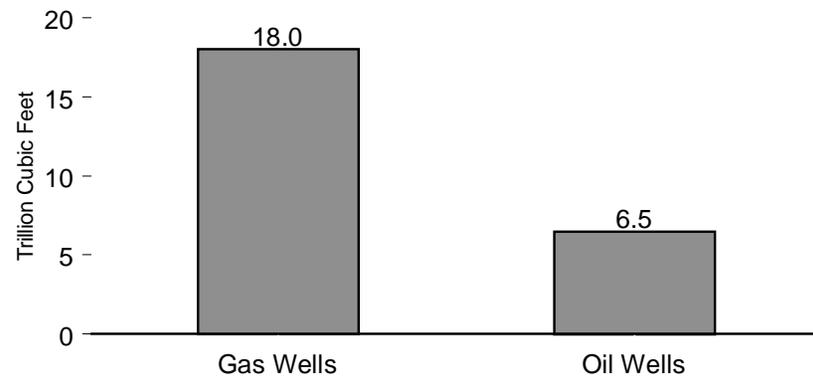


Note: Because vertical scales differ, graphs should not be compared.

**Production Flow, 2001
(Trillion Cubic Feet)**



Gross Withdrawals by Well Type, 2001



Source: Table 6.2.

Table 6.2 Natural Gas Production, 1949-2001
(Trillion Cubic Feet)

Year	Gross Withdrawals			Repressuring	Nonhydrocarbon Gases Removed	Vented and Flared	Marketed Production	Extraction Loss ¹	Dry Gas Production
	From Gas Wells	From Oil Wells	Total						
1949	4.99	2.56	7.55	1.27	NA	0.85	5.42	0.22	5.20
1950	5.60	2.88	8.48	1.40	NA	0.80	6.28	0.26	6.02
1951	6.48	3.21	9.69	1.44	NA	0.79	7.46	0.29	7.16
1952	6.84	3.43	10.27	1.41	NA	0.85	8.01	0.32	7.69
1953	7.10	3.55	10.65	1.44	NA	0.81	8.40	0.34	8.06
1954	7.47	3.52	10.98	1.52	NA	0.72	8.74	0.35	8.39
1955	7.84	3.88	11.72	1.54	NA	0.77	9.41	0.38	9.03
1956	8.31	4.07	12.37	1.43	NA	0.86	10.08	0.42	9.66
1957	8.72	4.19	12.91	1.42	NA	0.81	10.68	0.43	10.25
1958	9.15	3.99	13.15	1.48	NA	0.63	11.03	0.46	10.57
1959	10.10	4.13	14.23	1.61	NA	0.57	12.05	0.50	11.55
1960	10.85	4.23	15.09	1.75	NA	0.56	12.77	0.54	12.23
1961	11.20	4.27	15.46	1.68	NA	0.52	13.25	0.59	12.66
1962	11.70	4.34	16.04	1.74	NA	0.43	13.88	0.62	13.25
1963	12.61	4.37	16.97	1.84	NA	0.38	14.75	0.67	14.08
1964	13.11	4.43	17.54	1.65	NA	0.34	15.55	0.72	14.82
1965	13.52	4.44	17.96	1.60	NA	0.32	16.04	0.75	15.29
1966	13.89	5.14	19.03	1.45	NA	0.38	17.21	0.74	16.47
1967	15.35	4.91	20.25	1.59	NA	0.49	18.17	0.78	17.39
1968	16.54	4.79	21.33	1.49	NA	0.52	19.32	0.83	18.49
1969	17.49	5.19	22.68	1.46	NA	0.53	20.70	0.87	19.83
1970	18.59	5.19	23.79	1.38	NA	0.49	21.92	0.91	21.01
1971	18.93	5.16	24.09	1.31	NA	0.28	22.49	0.88	21.61
1972	19.04	4.97	24.02	1.24	NA	0.25	22.53	0.91	21.62
1973	19.37	4.70	24.07	1.17	NA	0.25	22.65	0.92	21.73
1974	18.67	4.18	22.85	1.08	NA	0.17	21.60	0.89	20.71
1975	17.38	3.72	21.10	0.86	NA	0.13	20.11	0.87	19.24
1976	17.19	3.75	20.94	0.86	NA	0.13	19.95	0.85	19.10
1977	17.42	3.68	21.10	0.93	NA	0.14	20.03	0.86	19.16
1978	17.39	3.91	21.31	1.18	NA	0.15	19.97	0.85	19.12
1979	18.03	3.85	21.88	1.25	NA	0.17	20.47	0.81	19.66
1980	17.57	4.30	21.87	1.37	0.20	0.13	20.18	0.78	19.40
1981	17.34	4.25	21.59	1.31	0.22	0.10	19.96	0.77	19.18
1982	15.81	4.46	20.27	1.39	0.21	0.09	18.58	0.76	17.82
1983	14.15	4.51	18.66	1.46	0.22	0.09	16.88	0.79	16.09
1984	15.51	4.75	20.27	1.63	0.22	0.11	18.30	0.84	17.47
1985	14.54	5.07	19.61	1.92	0.33	0.09	17.27	0.82	16.45
1986	14.15	4.98	19.13	1.84	0.34	0.10	16.86	0.80	16.06
1987	14.81	5.33	20.14	2.21	0.38	0.12	17.43	0.81	16.62
1988	15.47	5.53	21.00	2.48	0.46	0.14	17.92	0.82	17.10
1989	15.71	5.37	21.07	2.48	0.36	0.14	18.10	0.78	17.31
1990	16.05	5.47	21.52	2.49	0.29	0.15	18.59	0.78	17.81
1991	16.02	5.73	21.75	2.77	0.28	0.17	18.53	0.83	17.70
1992	16.16	5.97	22.13	2.97	0.28	0.17	18.71	0.87	17.84
1993	16.69	6.03	22.73	3.10	0.41	0.23	18.98	0.89	18.10
1994	17.35	6.23	23.58	3.23	0.41	0.23	19.71	0.89	18.82
1995	17.28	6.46	23.74	3.57	0.39	0.28	19.51	0.91	18.60
1996	17.74	6.38	24.11	3.51	0.52	0.27	19.81	0.96	18.85
1997	17.84	6.37	24.21	3.49	0.60	0.26	19.87	0.96	18.90
1998	R17.73	6.38	R24.11	R3.43	0.62	R0.10	R19.96	0.94	R19.02
1999	R17.59	R6.23	R23.82	R3.29	R0.62	R0.11	R19.80	0.97	R18.83
2000	R17.72	R6.43	R24.15	R3.43	R0.62	R0.10	R20.00	R1.02	R18.99
2001	E18.03	E6.47	F24.50	F3.53	P0.47	F0.11	F20.39	F1.04	F19.36

¹ Volume reduction resulting from the removal of natural gas plant liquids. Natural gas plant liquids are transferred to petroleum supply.

R=Revised. P=Preliminary. E=Estimate. NA=Not available.

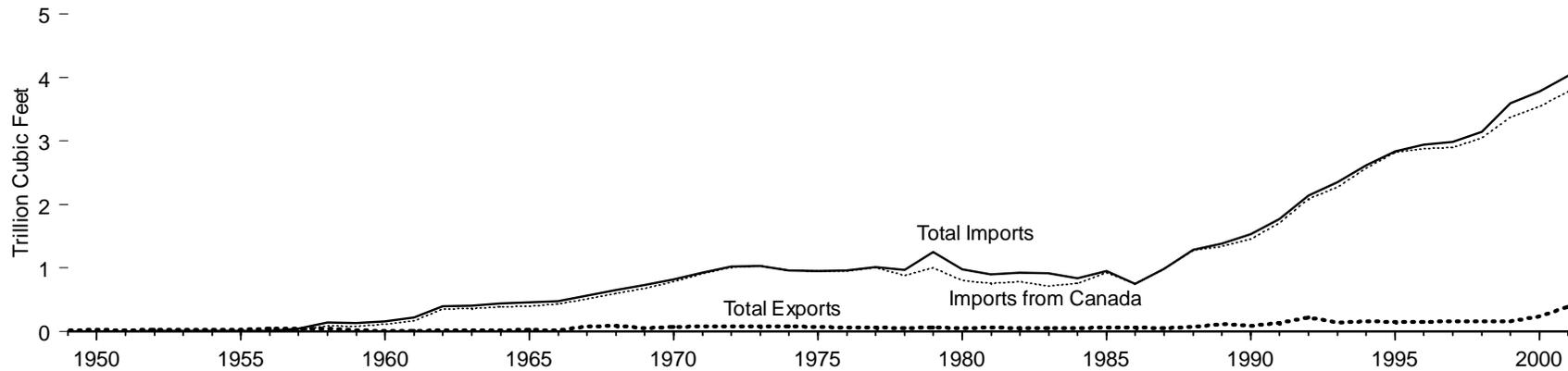
Notes: • Beginning with 1965 data, all volumes are shown on a pressure base of 14.73 p.s.i.a. at 60° F. For prior years, the pressure base was 14.65 p.s.i.a. at 60° F. • Totals may not equal sum of components due to independent rounding.

Web Page: http://www.eia.doe.gov/oil_gas/natural_gas/info_glance/natural_gas.html.

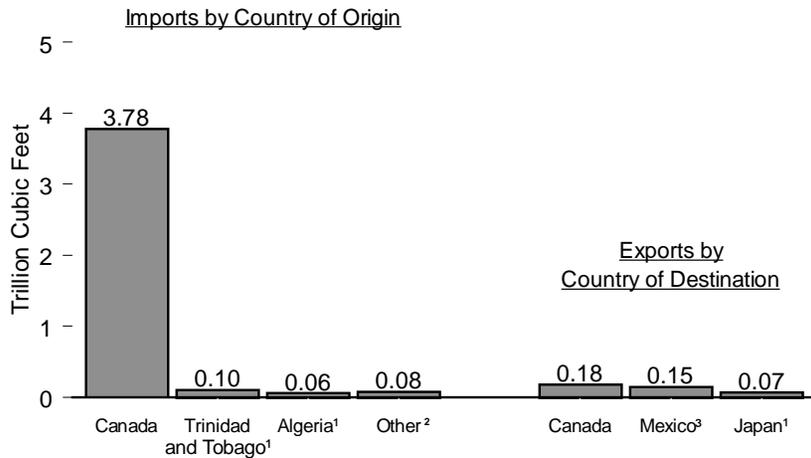
Sources: **From Gas Wells and From Oil Wells:** • 1949-1966—Bureau of Mines, *Minerals Yearbook*, "Natural Gas" chapter. • 1967-1995—Energy Information Administration (EIA), *Natural Gas Annual*, annual reports. • 1996-2000—EIA, *Natural Gas Annual 2000* (November 2001), Table 3. • 2001—EIA estimates. **All Other Data:** • 1949-1995—EIA, *Natural Gas Annual 2000* (November 2001), Table 93. • 1996 forward—EIA, *Natural Gas Monthly* (February 2002), Table 1.

Figure 6.3 Natural Gas Imports, Exports, and Net Imports

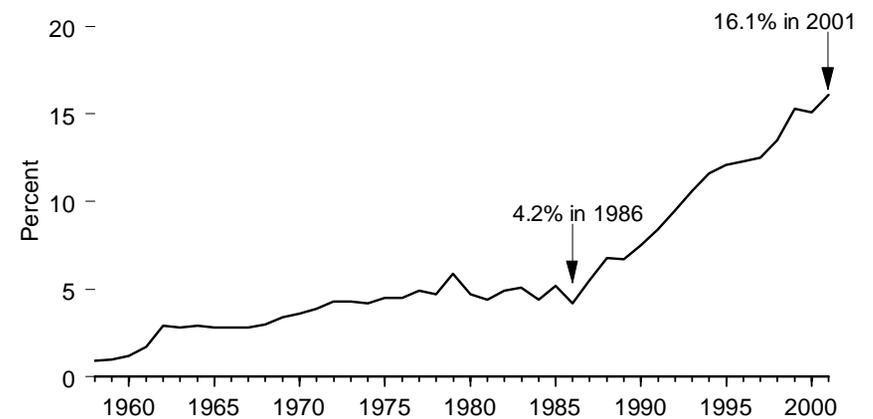
Trade Overview, 1949-2001



Trade, 2001



Net Imports as Share of Consumption, 1958-2001



¹ Liquefied natural gas.

² Australia, Mexico, Nigeria, Oman, and Qatar. Except for Mexico, other imports are liquefied natural gas.

³ Pipeline and liquefied natural gas.

Source: Table 6.3.

Table 6.3 Natural Gas Imports, Exports, and Net Imports, 1949-2001

(Billion Cubic Feet, Except as Noted)

Year	Imports by Country of Origin									Exports by Country of Destination				Net Imports ¹	
	Algeria ²	Australia ²	Canada	Mexico	Nigeria ²	Qatar ²	Trinidad and Tobago ²	United Arab Emirates ²	Total ³	Canada	Japan ²	Mexico ²	Total	Total	Percent of U.S. Consumption
1949	0	0	0	0	0	0	0	0	0	(s)	0	20	20	-20	(⁴)
1950	0	0	0	0	0	0	0	0	0	3	0	23	26	-26	(⁴)
1951	0	0	0	0	0	0	0	0	0	4	0	21	24	-24	(⁴)
1952	0	0	8	(s)	0	0	0	0	8	6	0	22	27	-20	(⁴)
1953	0	0	9	0	0	0	0	0	9	6	0	22	28	-19	(⁴)
1954	0	0	7	0	0	0	0	0	7	6	0	23	29	-22	(⁴)
1955	0	0	11	(s)	0	0	0	0	11	11	0	20	31	-20	(⁴)
1956	0	0	10	(s)	0	0	0	0	10	17	0	19	36	-26	(⁴)
1957	0	0	21	17	0	0	0	0	38	31	0	11	42	-4	(⁴)
1958	0	0	90	46	0	0	0	0	136	32	0	7	39	97	0.9
1959	0	0	83	51	0	0	0	0	134	12	0	7	18	116	1.0
1960	0	0	109	47	0	0	0	0	156	6	0	6	11	144	1.2
1961	0	0	167	52	0	0	0	0	219	6	0	5	11	208	1.7
1962	0	0	350	51	0	0	0	0	402	6	0	10	16	386	2.9
1963	0	0	356	50	0	0	0	0	406	7	0	10	17	389	2.8
1964	0	0	391	53	0	0	0	0	443	10	0	10	20	424	2.9
1965	0	0	405	52	0	0	0	0	456	18	0	8	26	430	2.8
1966	0	0	430	50	0	0	0	0	480	20	0	4	25	455	2.8
1967	0	0	513	51	0	0	0	0	564	70	0	11	82	483	2.8
1968	0	0	604	47	0	0	0	0	652	82	0	12	94	558	3.0
1969	0	0	680	47	0	0	0	0	727	35	3	13	51	676	3.4
1970	1	0	779	41	0	0	0	0	821	11	44	15	70	751	3.6
1971	1	0	912	21	0	0	0	0	935	14	50	16	80	854	3.9
1972	2	0	1,009	8	0	0	0	0	1,019	16	48	15	78	941	4.3
1973	3	0	1,028	2	0	0	0	0	1,033	15	48	14	77	956	4.3
1974	0	0	959	(s)	0	0	0	0	959	13	50	13	77	882	4.2
1975	5	0	948	0	0	0	0	0	953	10	53	9	73	880	4.5
1976	10	0	954	0	0	0	0	0	964	8	50	7	65	899	4.5
1977	11	0	997	2	0	0	0	0	1,011	(s)	52	4	56	955	4.9
1978	84	0	881	0	0	0	0	0	966	(s)	48	4	53	913	4.7
1979	253	0	1,001	0	0	0	0	0	1,253	(s)	51	4	56	1,198	5.9
1980	86	0	797	102	0	0	0	0	985	(s)	45	4	49	936	4.7
1981	37	0	762	105	0	0	0	0	904	(s)	56	3	59	845	4.4
1982	55	0	783	95	0	0	0	0	933	(s)	50	2	52	882	4.9
1983	131	0	712	75	0	0	0	0	918	(s)	53	2	55	864	5.1
1984	36	0	755	52	0	0	0	0	843	(s)	53	2	55	788	4.4
1985	24	0	926	0	0	0	0	0	950	(s)	53	2	55	894	5.2
1986	0	0	749	0	0	0	0	0	750	9	50	2	61	689	4.2
1987	0	0	993	0	0	0	0	0	993	3	49	2	54	939	5.5
1988	17	0	1,276	0	0	0	0	0	1,294	20	52	2	74	1,220	6.8
1989	42	0	1,339	0	0	0	0	0	1,382	38	51	17	107	1,275	R6.7
1990	84	0	1,448	0	0	0	0	0	1,532	17	53	16	86	1,447	R7.5
1991	64	0	1,710	0	0	0	0	0	1,773	15	54	60	129	1,644	R8.4
1992	43	0	2,094	0	0	0	0	0	2,138	68	53	96	216	1,921	R9.5
1993	82	0	2,267	2	0	0	0	0	2,350	45	56	40	140	2,210	R10.6
1994	51	0	2,566	7	0	0	0	0	2,624	53	63	47	162	2,462	R11.6
1995	18	0	2,816	7	0	0	0	0	2,841	28	65	61	154	2,687	R12.1
1996	35	0	2,883	14	0	0	0	5	2,937	52	68	34	153	2,784	R12.3
1997	66	10	2,899	17	0	0	0	2	2,994	56	62	38	157	2,837	R12.5
1998	69	12	3,052	15	0	0	0	5	3,152	40	66	53	159	2,993	R13.5
1999	76	12	3,368	55	0	20	51	3	3,586	39	64	61	163	3,422	R15.3
2000	R47	R6	R3,544	R12	13	46	99	R3	R3,782	R73	R66	R106	R244	R3,538	R15.1
2001	P65	P2	E3,781	E8	E38	E23	E99	E0	E4,029	E178	P66	E151	E394	E3,635	E16.1

¹ Net imports = imports minus exports.

² Imports from Algeria, Australia, Nigeria, Qatar, Trinidad, Tobago, and United Arab Emirates, and exports to Japan are liquefied natural gas. Exports to Mexico include a small amount of liquefied natural gas.

³ Included in the total but not shown separately are liquefied natural gas imports from Indonesia in 1986 and 2000, Malaysia in 1999, and Oman in 2000 and 2001.

⁴ Not meaningful because there were net exports during this year.

R=Revised. P=Preliminary. E=Estimate. (s)=Less than 0.5 billion cubic feet.

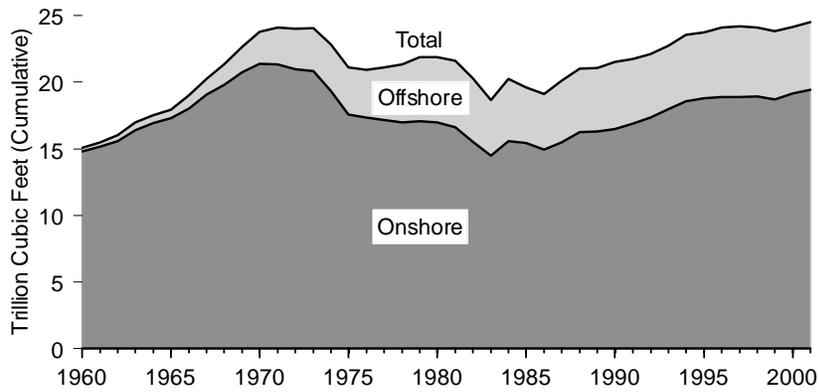
Note: Totals may not equal sum of components due to independent rounding.

 Web Page: http://www.eia.doe.gov/oil_gas/natural_gas/info_glance/natural_gas.html.

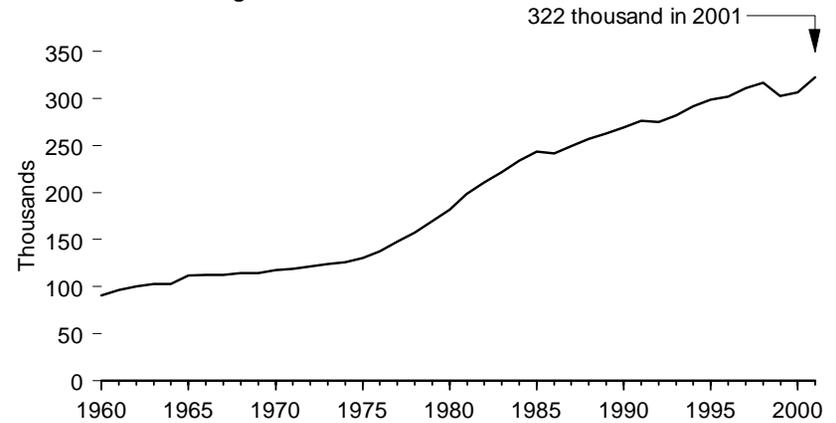
 Sources: • 1949-1954—Energy Information Administration (EIA), Office of Oil and Gas, Reserves and Natural Gas Division, unpublished data. • 1955-1971—EIA, Federal Power Commission, by telephone. • 1972-1987—EIA, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." • 1988-1994—EIA, *Natural Gas Annual*, annual reports. • 1995 forward—EIA, *Natural Gas Monthly* (February 2002), Tables 5 and 6.

Figure 6.4 Natural Gas Gross Withdrawals by State and Location and Gas Well Productivity, 1960-2001

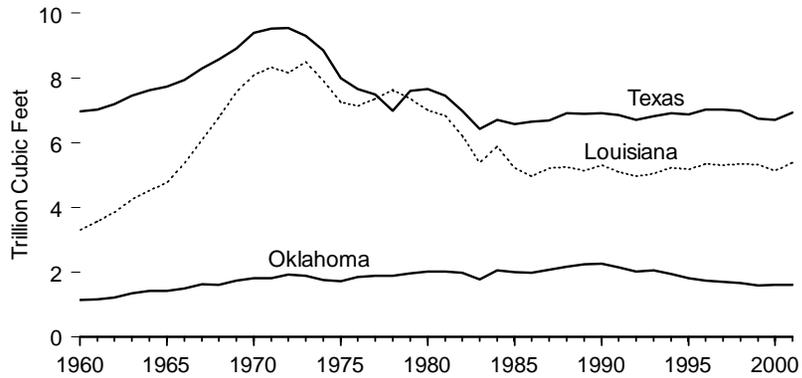
Gross Withdrawals by Location



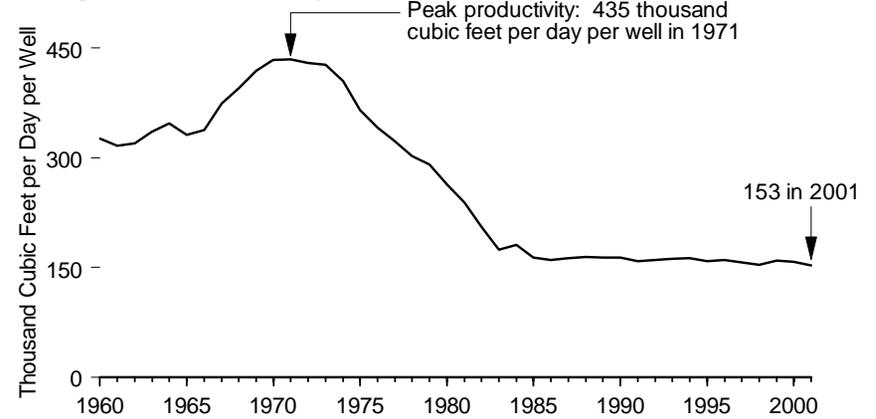
Number of Producing Wells



Gross Withdrawals in Top Producing States



Average Gas Well Productivity



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 6.4.

Table 6.4 Natural Gas Gross Withdrawals by State and Location and Gas Well Productivity, 1960-2001

(Trillion Cubic Feet, Except as Noted)

Year	State				Location		Gross Withdrawals from Oil and Gas Wells	Gas Well ¹ Productivity		
	Texas	Louisiana	Oklahoma	Other	Onshore ²	Offshore ³		Gross Withdrawals from Gas Wells	Producing Wells ⁴ (thousands)	Average Productivity (thousand cubic feet per day)
1960	6.96	3.31	1.13	3.68	14.81	0.27	15.09	10.85	91	326.7
1961	7.02	3.57	1.16	3.71	15.14	0.32	15.46	11.20	97	316.8
1962	7.20	3.85	1.22	3.76	15.59	0.45	16.04	11.70	100	319.8
1963	7.45	4.25	1.35	3.92	16.41	0.56	16.97	12.61	103	335.4
1964	7.62	4.52	1.42	3.98	16.91	0.62	17.54	13.11	103	347.4
1965	7.74	4.76	1.41	4.04	17.32	0.65	17.96	13.52	112	331.8
1966	7.93	5.37	1.50	4.23	18.03	1.01	19.03	13.89	112	338.4
1967	8.29	6.09	1.62	4.25	19.06	1.19	20.25	15.35	112	374.3
1968	8.57	6.78	1.61	4.37	19.80	1.52	21.33	16.54	114	395.1
1969	8.91	7.56	1.74	4.46	20.72	1.95	22.68	17.49	114	418.6
1970	9.40	8.08	1.81	4.50	21.37	2.42	23.79	18.59	117	433.6
1971	9.52	8.32	1.81	4.44	21.31	2.78	24.09	18.93	119	434.8
1972	9.55	8.16	1.93	4.38	20.98	3.04	24.02	19.04	121	429.4
1973	9.29	8.49	1.89	4.40	20.86	3.21	24.07	19.37	124	427.4
1974	8.86	7.92	1.76	4.31	19.34	3.51	22.85	18.67	126	404.9
1975	7.99	7.24	1.72	4.15	17.55	3.55	21.10	17.38	130	365.3
1976	7.67	7.14	1.84	4.29	17.35	3.60	20.94	17.19	138	341.5
1977	7.50	7.35	1.89	4.36	17.16	3.93	21.10	17.42	148	323.1
1978	6.99	7.64	1.89	4.79	16.95	4.36	21.31	17.39	157	302.7
1979	7.59	7.36	1.96	4.97	17.06	4.82	21.88	18.03	170	290.8
1980	7.66	7.01	2.02	5.19	16.97	4.90	21.87	17.57	182	263.8
1981	7.45	6.83	2.02	5.29	16.60	4.99	21.59	17.34	199	238.9
1982	6.98	6.22	1.99	5.09	15.50	4.77	20.27	15.81	211	205.5
1983	6.43	5.38	1.78	5.07	14.48	4.18	18.66	14.15	222	174.7
1984	6.71	5.89	2.05	5.62	15.56	4.71	20.27	15.51	234	181.2
1985	6.58	5.22	1.99	5.82	15.42	4.19	19.61	14.54	243	163.6
1986	6.66	4.96	1.97	5.54	14.95	4.19	19.13	14.15	242	160.6
1987	6.69	5.20	2.07	6.17	15.47	4.67	20.14	14.81	249	162.8
1988	6.92	5.25	2.17	6.67	16.25	4.75	21.00	15.47	257	164.3
1989	6.88	5.14	2.24	6.81	16.30	4.77	21.07	15.71	262	164.0
1990	6.91	5.30	2.26	7.05	16.48	5.05	21.52	16.05	269	163.4
1991	6.85	5.10	2.15	7.65	16.90	4.85	21.75	16.02	276	158.8
1992	6.71	4.98	2.02	8.43	17.36	4.77	22.13	16.16	275	160.4
1993	6.82	5.05	2.05	8.81	17.96	4.77	22.73	16.69	282	162.1
1994	6.91	5.23	1.93	9.51	18.58	5.00	23.58	17.35	292	162.9
1995	6.87	5.16	1.81	9.90	18.80	4.94	23.74	17.28	299	158.6
1996	7.03	5.35	1.73	10.00	18.87	5.25	24.11	17.74	302	160.6
1997	7.02	5.30	1.70	10.19	18.90	5.32	24.21	17.84	311	157.2
1998	^R 6.98	^R 5.34	^R 1.67	^R 10.12	^R 18.92	^R 5.19	^R 24.11	^R 17.73	^R 317	^R 153.3
1999	^R 6.73	^R 5.33	^R 1.59	^R 10.17	^R 18.69	^R 5.13	^R 23.82	^R 17.59	^R 302	^R 159.4
2000	^R 6.71	^R 5.13	^R 1.61	^R 10.70	^R 19.14	^R 5.02	^R 24.15	^R 17.72	^R 306	^R 158.1
2001	^E 6.94	^E 5.37	^E 1.61	^E 10.58	^E 19.41	^E 5.09	^P 24.50	^E 18.03	^P 322	^E 153.2

¹ See Glossary.

² Includes State offshore gross withdrawals.

³ Excludes State offshore gross withdrawals; includes Federal offshore (Outer Continental Shelf) gross withdrawals.

⁴ As of December 31 each year.

R=Revised. P=Preliminary. E=Estimate.

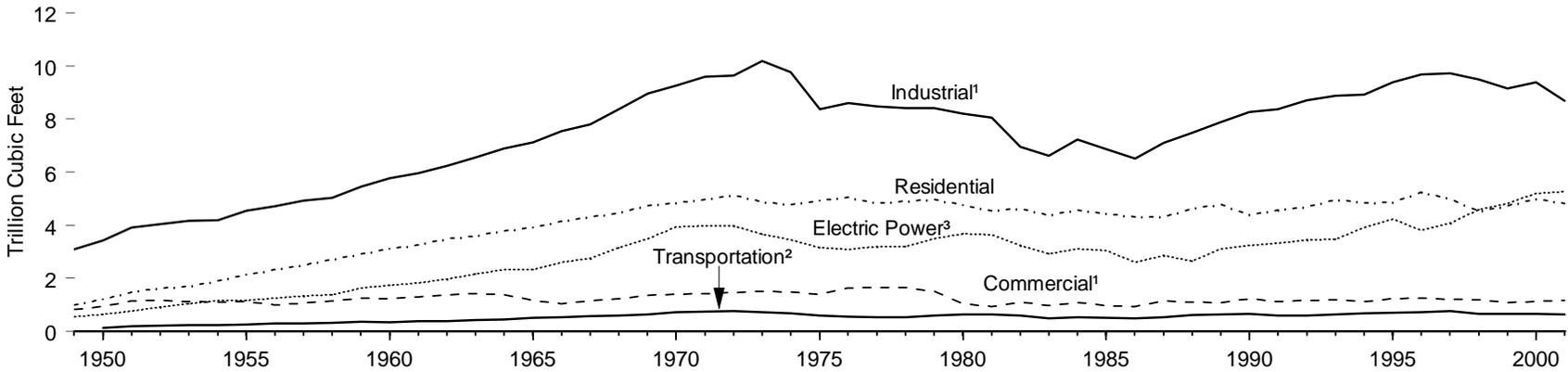
Web Page: http://www.eia.doe.gov/oil_gas/natural_gas/info_glance/natural_gas.html.

Sources: **Offshore** (Outer Continental Shelf): • 1960-1981—U.S. Geological Survey. • 1982-1985—The United States Minerals Management Service, *Mineral Revenues - The 1989 Report on Receipts from*

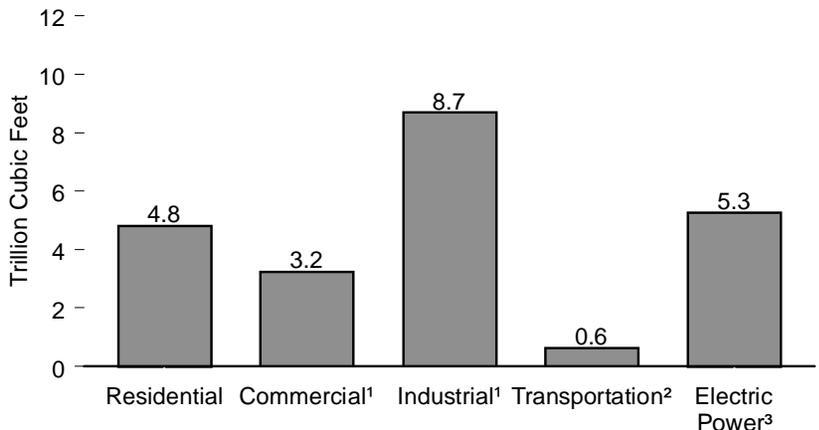
Federal and Indian Leases, and predecessor annual reports. • 1986-1995—EIA, *Natural Gas Annual*, annual reports. • 1996-2000—EIA, *Natural Gas Annual 2000* (November 2001), Table 4. • 2001—EIA estimates. **Gross Withdrawals from Oil and Gas Wells:** • 1960-1995—EIA, *Natural Gas Annual 2000* (November 2001), Table 93. • 1996 forward—EIA, *Natural Gas Monthly* (February 2002), Table 1. **Producing Wells:** • 1960-1966—Bureau of Mines, *Natural Gas Production and Consumption*. • 1967-1995—EIA, *Natural Gas Annual*, annual reports. • 1996-2000—EIA, *Natural Gas Annual 2000* (November 2001), Table 1. • 2001—Gulf Publishing Company, *World Oil* (February 2002). **Average Productivity:** Calculated. **All Other Data:** • 1960-1966—Bureau of Mines, *Natural Gas Production and Consumption*. • 1967-2000—EIA, *Natural Gas Annual*, annual reports. • 2001—EIA estimates.

Figure 6.5 Natural Gas Consumption by Sector

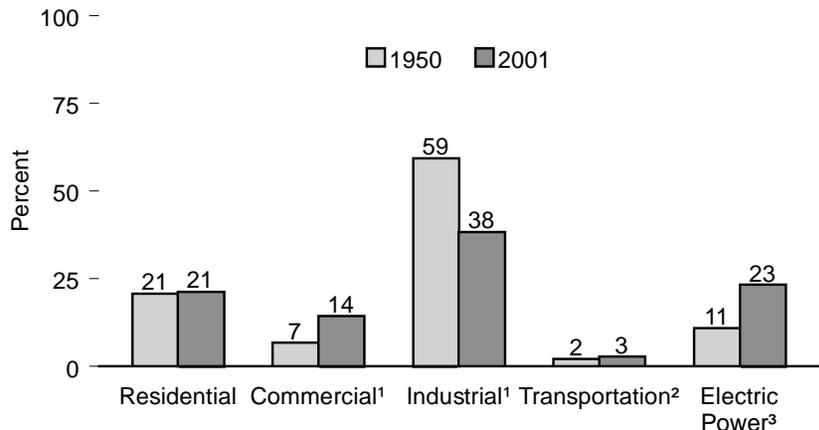
By Sector, 1949-2001



By Sector, 2001



End Use and Electric Power Shares, 1950 and 2001



¹ Includes combined-heat-and-power plants and a small number of electricity-only plants.
² Pipeline and vehicle fuel.
³ Electricity-only and combined-heat-and-power plants whose primary business is to sell electricity, or electricity and heat, to the public.

Source: Table 6.5.

Table 6.5 Natural Gas Consumption by Sector, 1949-2001
(Trillion Cubic Feet)

Year	End-Use Sectors													Electric Power Sector ^{1,2}			Total
	Residential	Commercial			Lease and Plant Fuel	Industrial			Total	Transportation			Total	Electricity Only	CHP	Total	
		CHP ³	Other ⁴	Total		Other Industrial		Pipeline Fuel ⁷		Vehicle Fuel	Total						
						CHP ⁵	Non-CHP ⁶										
1949	0.99	(⁸)	0.35	0.35	0.84	(⁹)	2.25	2.25	3.08	NA	NA	NA	4.42	0.55	(¹⁰)	0.55	4.97
1950	1.20	(⁸)	0.39	0.39	0.93	(⁹)	2.50	2.50	3.43	0.13	NA	0.13	5.14	0.63	(¹⁰)	0.63	5.77
1951	1.47	(⁸)	0.46	0.46	1.15	(⁹)	2.77	2.77	3.91	0.19	NA	0.19	6.05	0.76	(¹⁰)	0.76	6.81
1952	1.62	(⁸)	0.52	0.52	1.16	(⁹)	2.87	2.87	4.04	0.21	NA	0.21	6.38	0.91	(¹⁰)	0.91	7.29
1953	1.69	(⁸)	0.53	0.53	1.13	(⁹)	3.03	3.03	4.16	0.23	NA	0.23	6.60	1.03	(¹⁰)	1.03	7.64
1954	1.89	(⁸)	0.58	0.58	1.10	(⁹)	3.07	3.07	4.17	0.23	NA	0.23	6.88	1.17	(¹⁰)	1.17	8.05
1955	2.12	(⁸)	0.63	0.63	1.13	(⁹)	3.41	3.41	4.54	0.25	NA	0.25	7.54	1.15	(¹⁰)	1.15	8.69
1956	2.33	(⁸)	0.72	0.72	1.00	(⁹)	3.71	3.71	4.71	0.30	NA	0.30	8.05	1.24	(¹⁰)	1.24	9.29
1957	2.50	(⁸)	0.78	0.78	1.05	(⁹)	3.89	3.89	4.93	0.30	NA	0.30	8.51	1.34	(¹⁰)	1.34	9.85
1958	2.71	(⁸)	0.87	0.87	1.15	(⁹)	3.89	3.89	5.03	0.31	NA	0.31	8.93	1.37	(¹⁰)	1.37	10.30
1959	2.91	(⁸)	0.98	0.98	1.24	(⁹)	4.22	4.22	5.46	0.35	NA	0.35	9.69	1.63	(¹⁰)	1.63	11.32
1960	3.10	(⁸)	1.02	1.02	1.24	(⁹)	4.53	4.53	5.77	0.35	NA	0.35	10.24	1.72	(¹⁰)	1.72	11.97
1961	3.25	(⁸)	1.08	1.08	1.29	(⁹)	4.67	4.67	5.96	0.38	NA	0.38	10.66	1.83	(¹⁰)	1.83	12.49
1962	3.48	(⁸)	1.21	1.21	1.37	(⁹)	4.86	4.86	6.23	0.38	NA	0.38	11.30	1.97	(¹⁰)	1.97	13.27
1963	3.59	(⁸)	1.27	1.27	1.41	(⁹)	5.13	5.13	6.55	0.42	NA	0.42	11.83	2.14	(¹⁰)	2.14	13.97
1964	3.79	(⁸)	1.37	1.37	1.37	(⁹)	5.52	5.52	6.89	0.44	NA	0.44	12.49	2.32	(¹⁰)	2.32	14.81
1965	3.90	(⁸)	1.44	1.44	1.16	(⁹)	5.96	5.96	7.11	0.50	NA	0.50	12.96	2.32	(¹⁰)	2.32	15.28
1966	4.14	(⁸)	1.62	1.62	1.03	(⁹)	6.51	6.51	7.55	0.54	NA	0.54	13.84	2.61	(¹⁰)	2.61	16.45
1967	4.31	(⁸)	1.96	1.96	1.14	(⁹)	6.65	6.65	7.79	0.58	NA	0.58	14.64	2.75	(¹⁰)	2.75	17.39
1968	4.45	(⁸)	2.08	2.08	1.24	(⁹)	7.13	7.13	8.37	0.59	NA	0.59	15.48	3.15	(¹⁰)	3.15	18.63
1969	4.73	(⁸)	2.25	2.25	1.35	(⁹)	7.61	7.61	8.96	0.63	NA	0.63	16.57	3.49	(¹⁰)	3.49	20.06
1970	4.84	(⁸)	2.40	2.40	1.40	(⁹)	7.85	7.85	9.25	0.72	NA	0.72	17.21	3.93	(¹⁰)	3.93	21.14
1971	4.97	(⁸)	2.51	2.51	1.41	(⁹)	8.18	8.18	9.59	0.74	NA	0.74	17.82	3.98	(¹⁰)	3.98	21.79
1972	5.13	(⁸)	2.61	2.61	1.46	(⁹)	8.17	8.17	9.62	0.77	NA	0.77	18.12	3.98	(¹⁰)	3.98	22.10
1973	4.88	(⁸)	2.60	2.60	1.50	(⁹)	8.69	8.69	10.18	0.73	NA	0.73	18.39	3.66	(¹⁰)	3.66	22.05
1974	4.79	(⁸)	2.56	2.56	1.48	(⁹)	8.29	8.29	9.77	0.67	NA	0.67	17.78	3.44	(¹⁰)	3.44	21.22
1975	4.92	(⁸)	2.51	2.51	1.40	(⁹)	6.97	6.97	8.36	0.58	NA	0.58	16.38	3.16	(¹⁰)	3.16	19.54
1976	5.05	(⁸)	2.67	2.67	1.63	(⁹)	6.96	6.96	8.60	0.55	NA	0.55	16.87	3.08	(¹⁰)	3.08	19.95
1977	4.82	(⁸)	2.50	2.50	1.66	(⁹)	6.82	6.82	8.47	0.53	NA	0.53	16.33	3.19	(¹⁰)	3.19	19.52
1978	4.90	(⁸)	2.60	2.60	1.65	(⁹)	6.76	6.76	8.40	0.53	NA	0.53	16.44	3.19	(¹⁰)	3.19	19.63
1979	4.97	(⁸)	2.79	2.79	1.50	(⁹)	6.90	6.90	8.40	0.60	NA	0.60	16.75	3.49	(¹⁰)	3.49	20.24
1980	4.75	(⁸)	2.61	2.61	1.03	(⁹)	7.17	7.17	8.20	0.63	NA	0.63	16.20	3.68	(¹⁰)	3.68	19.88
1981	4.55	(⁸)	2.52	2.52	0.93	(⁹)	7.13	7.13	8.06	0.64	NA	0.64	15.76	3.64	(¹⁰)	3.64	19.40
1982	4.63	(⁸)	2.61	2.61	1.11	(⁹)	5.83	5.83	6.94	0.60	NA	0.60	14.78	3.23	(¹⁰)	3.23	18.00
1983	4.38	(⁸)	2.43	2.43	0.98	(⁹)	5.64	5.64	6.62	0.49	NA	0.49	13.92	2.91	(¹⁰)	2.91	16.83
1984	4.56	(⁸)	2.52	2.52	1.08	(⁹)	6.15	6.15	7.23	0.53	NA	0.53	14.84	3.11	(¹⁰)	3.11	17.95
1985	4.43	(⁸)	2.43	2.43	0.97	(⁹)	5.90	5.90	6.87	0.50	NA	0.50	14.24	3.04	(¹⁰)	3.04	17.28
1986	4.31	(⁸)	2.32	2.32	0.92	(⁹)	5.58	5.58	6.50	0.49	NA	0.49	13.62	2.60	(¹⁰)	2.60	16.22
1987	4.31	(⁸)	2.43	2.43	1.15	(⁹)	5.95	5.95	7.10	0.52	NA	0.52	14.37	2.84	(¹⁰)	2.84	17.21
1988	4.63	(⁸)	2.67	2.67	1.10	(⁹)	6.38	6.38	7.48	0.61	NA	0.61	15.39	2.64	(¹⁰)	2.64	18.03
1989	4.78	P0.03	2.69	2.72	1.07	P0.91	115.90	116.82	7.89	0.63	NA	0.63	16.01	2.11,P2.79	10,11,P0.31	2.11,P3.11	11,R19.12
1990	4.39	P0.04	2.58	2.62	1.24	P0.98	116.03	117.02	8.25	0.66	(s)	0.66	15.93	11,P2.79	10,11,P0.44	11,P3.23	11,R19.16
1991	4.56	P0.05	2.68	2.73	1.13	P1.06	116.17	117.23	8.36	0.60	(s)	0.60	16.25	11,P2.82	10,11,P0.49	11,P3.32	11,R19.56
1992	4.69	P0.06	2.74	2.80	1.17	P1.11	116.42	117.53	8.70	0.59	(s)	0.59	16.78	11,P2.83	10,11,P0.62	11,P3.45	11,R20.23
1993	4.96	P0.07	2.80	2.86	1.17	P1.12	6.58	R7.70	R8.87	0.62	(s)	0.63	R17.32	P2.76	P3.47	R20.79	
1994	4.85	P0.07	2.82	2.90	1.12	P1.18	6.61	R7.79	R8.91	0.69	(s)	0.69	R17.34	P3.06	10,P0.84	P3.90	R21.25
1995	4.85	P0.08	2.95	3.03	1.22	P1.26	6.90	R8.16	R9.38	0.70	(s)	0.70	R17.97	P3.29	10,P0.95	P4.24	R22.21
1996	5.24	P0.08	3.08	3.16	1.25	P1.29	7.15	R8.44	R9.69	0.71	R0.01	R0.72	R18.80	P2.82	10,P0.98	P3.81	R22.61
1997	4.98	P0.09	3.13	3.21	1.20	P1.28	7.23	R8.51	R9.71	0.75	R0.01	0.76	R18.67	P3.04	10,P1.03	P4.06	R22.74
1998	4.52	P0.09	2.91	3.00	R1.17	P1.35	6.97	R8.32	R9.49	0.64	0.01	0.64	R17.66	P3.54	10,P1.04	P4.59	R22.24
1999	4.73	P0.08	2.96	3.04	1.08	P1.40	6.68	R8.08	R9.16	R0.65	0.01	R0.66	R17.58	P3.73	10,P1.09	P4.82	R22.40
2000	R4.99	P0.08	3.13	R3.22	R1.13	P1.39	6.87	R8.25	R9.38	R0.64	0.01	R0.66	R18.25	P4.09	10,P1.11	P5.21	R23.46
2001	4.81	E0.08	3.17	3.25	1.16	E1.35	6.18	7.53	8.69	0.61	0.01	0.63	17.37	P4.08	10,E1.18	P5.26	22.64

¹ The electric power sector (electric utilities and independent power producers) comprises electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public—i.e., NAICS 22 plants.

² Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

³ Commercial combined-heat-and-power and a small number of commercial electricity-only plants.

⁴ All commercial sector fuel use other than that in "Commercial CHP."

⁵ Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants.

⁶ All industrial sector fuel use other than that in "Lease and Plant Fuel" and "Industrial CHP."

⁷ Natural gas consumed in the operation of pipelines, primarily in compressors.

⁸ Included in "Commercial Other."

⁹ Included in "Industrial Non-CHP."

¹⁰ Electric utility CHP plants are included in "Electricity Only."

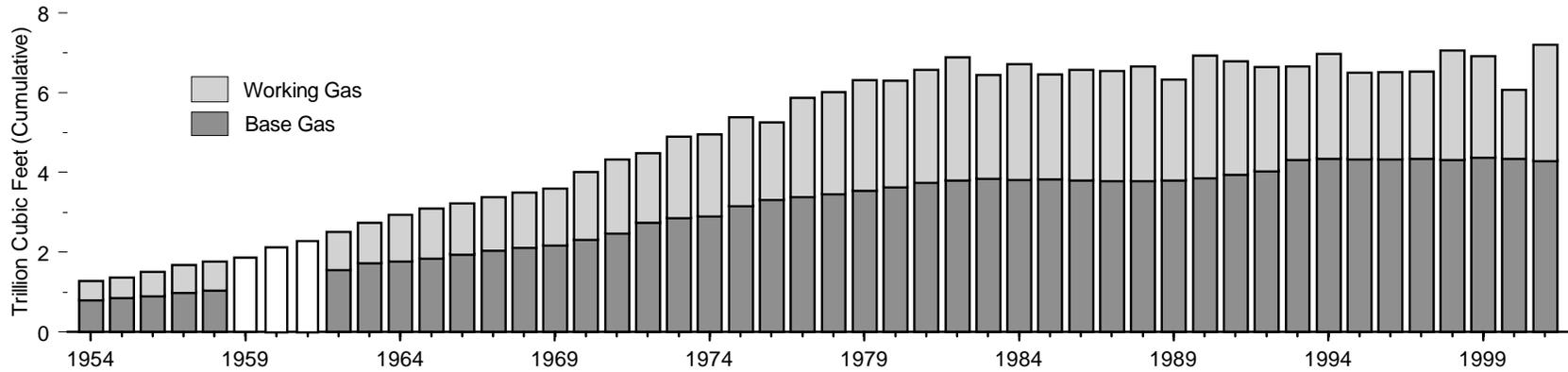
¹¹ For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector." See Note 3 at end of section.

R=Revised. P=Preliminary. E=Estimate. NA=Not available. (s)=Less than 0.005 trillion cubic feet.

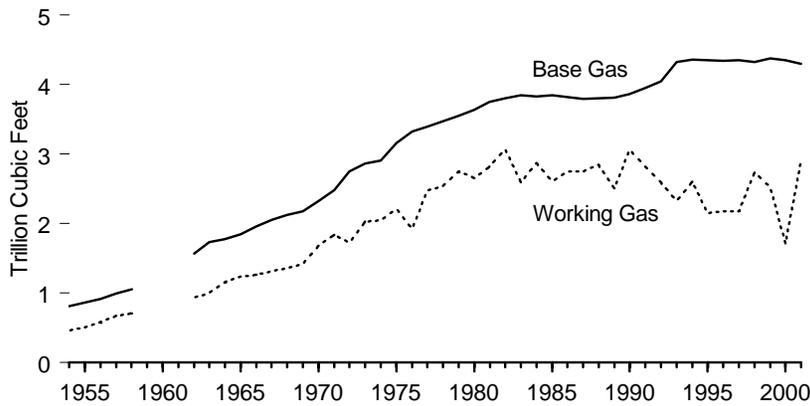
Notes, Web Page, and Sources: See end of section.

Figure 6.6 Natural Gas in Underground Storage, 1954-2001

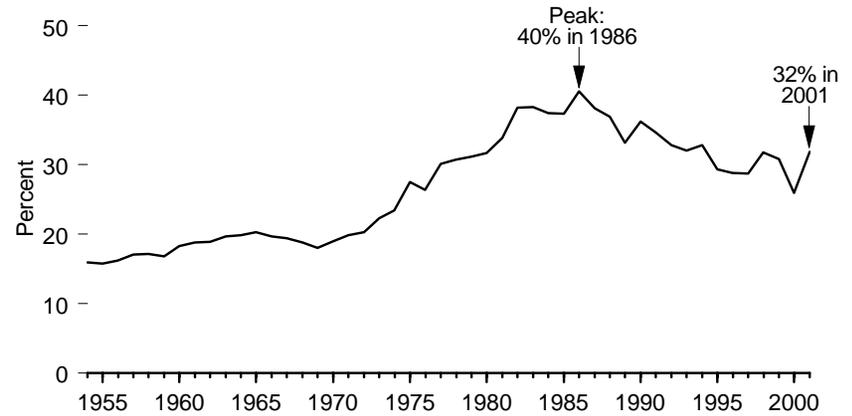
Total



Base Gas and Working Gas



End-of-Year Storage as a Share of Total Consumption



Notes: • Storage is at end of year. • Because vertical scales differ, graphs should not be compared. • Working- and base-gas component data were not collected in 1959, 1960, and 1961.

Sources: Tables 6.5 and 6.6.

Table 6.6 Natural Gas in Underground Storage, 1954-2001
(Billion Cubic Feet)

Year	Base Gas ¹			Working Gas			Total		
	Traditonal Storage	Salt Caverns	Total	Traditonal Storage	Salt Caverns	Total	Traditonal Storage	Salt Caverns	Total
1954	NA	NA	817	NA	NA	465	NA	NA	1,281
1955	NA	NA	863	NA	NA	505	NA	NA	1,368
1956	NA	NA	919	NA	NA	583	NA	NA	1,502
1957	NA	NA	1,001	NA	NA	673	NA	NA	1,674
1958	NA	NA	1,056	NA	NA	708	NA	NA	1,764
1959	NA	NA	NA	NA	NA	NA	NA	NA	1,901
1960	NA	NA	NA	NA	NA	NA	NA	NA	2,184
1961	NA	NA	NA	NA	NA	NA	NA	NA	2,344
1962	NA	NA	1,571	NA	NA	933	NA	NA	2,504
1963	NA	NA	1,738	NA	NA	1,007	NA	NA	2,745
1964	NA	NA	1,781	NA	NA	1,159	NA	NA	2,940
1965	NA	NA	1,848	NA	NA	1,242	NA	NA	3,090
1966	NA	NA	1,958	NA	NA	1,267	NA	NA	3,225
1967	NA	NA	2,058	NA	NA	1,318	NA	NA	3,376
1968	NA	NA	2,128	NA	NA	1,366	NA	NA	3,495
1969	NA	NA	2,181	NA	NA	1,421	NA	NA	3,602
1970	NA	NA	2,326	NA	NA	1,678	NA	NA	4,004
1971	NA	NA	2,485	NA	NA	1,840	NA	NA	4,325
1972	NA	NA	2,751	NA	NA	1,729	NA	NA	4,480
1973	NA	NA	2,864	NA	NA	2,034	NA	NA	4,898
1974	NA	NA	2,912	NA	NA	2,050	NA	NA	4,962
1975	NA	NA	3,162	NA	NA	2,212	NA	NA	5,374
1976	NA	NA	3,323	NA	NA	1,926	NA	NA	5,250
1977	NA	NA	3,391	NA	NA	2,475	NA	NA	5,866
1978	NA	NA	3,473	NA	NA	2,547	NA	NA	6,020
1979	NA	NA	3,553	NA	NA	2,753	NA	NA	6,306
1980	NA	NA	3,642	NA	NA	2,655	NA	NA	6,297
1981	NA	NA	3,752	NA	NA	2,817	NA	NA	6,569
1982	NA	NA	3,808	NA	NA	3,071	NA	NA	6,879
1983	NA	NA	3,847	NA	NA	2,595	NA	NA	6,442
1984	NA	NA	3,830	NA	NA	2,876	NA	NA	6,706
1985	NA	NA	3,842	NA	NA	2,607	NA	NA	6,448
1986	NA	NA	3,819	NA	NA	2,749	NA	NA	6,567
1987	NA	NA	3,792	NA	NA	2,756	NA	NA	6,548
1988	NA	NA	3,800	NA	NA	2,850	NA	NA	6,650
1989	NA	NA	3,812	NA	NA	2,513	NA	NA	6,325
1990	NA	NA	3,868	NA	NA	3,068	NA	NA	6,936
1991	NA	NA	3,954	NA	NA	2,824	NA	NA	6,778
1992	NA	NA	4,044	NA	NA	2,597	NA	NA	6,641
1993	NA	NA	4,327	NA	NA	2,322	NA	NA	6,649
1994	4,317	44	4,360	2,536	70	2,606	6,853	113	6,966
1995	4,290	60	4,349	2,082	72	2,153	6,371	131	6,503
1996	4,277	64	4,341	2,087	85	2,173	6,364	149	6,513
1997	4,283	67	4,350	2,092	83	2,175	6,375	150	6,525
1998	4,259	67	4,326	2,626	104	2,730	6,884	171	7,056
1999	4,314	69	4,383	2,423	100	2,523	6,738	169	6,906
2000 ^E	^R 4,282	70	^R 4,352	^R 1,647	^R 72	^R 1,719	^R 5,929	^R 142	^R 6,071
2001 ^E	4,232	71	4,304	2,793	110	2,903	7,025	182	7,207

¹ Includes native gas.

R=Revised. E=Estimate. NA=Not available.

Notes: • Storage is at end of year. • Beginning with 1965, all volumes are shown on a pressure base of 14.73 p.s.i.a. at 60 degrees F. For prior years, the pressure base was 14.65 p.s.i.a. at 60 degrees F.

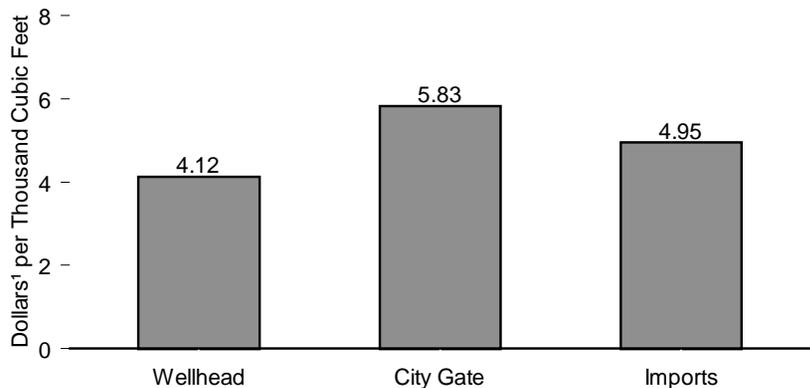
• Totals may not equal sum of components due to independent rounding.

Web Page: http://www.eia.doe.gov/oil_gas/natural_gas/info_glance/natural_gas.html.

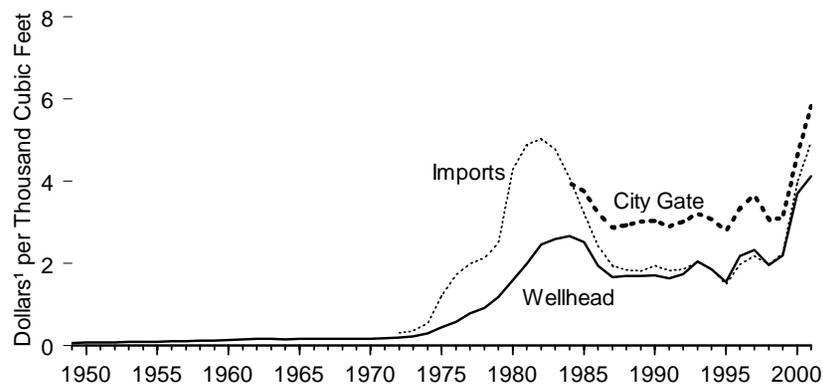
Sources: • 1954-1974—American Gas Association, *Gas Facts*. • 1975-1978—Federal Energy Administration, Form FEA-G318-M-O, "Underground Gas Storage Report," and Federal Power Commission, Form FPC-8, "Underground Gas Storage Report." • 1979-1984—EIA, Form EIA-191, "Underground Gas Storage Report" and Federal Energy Regulatory Commission, Form FERC-8, "Underground Gas Storage Report." • 1985-1994—EIA, *Natural Gas Monthly*, monthly reports. • 1995 forward—EIA, *Natural Gas Monthly*, (March 2002), Tables 9, 11, and 12.

Figure 6.7 Natural Gas Wellhead, City Gate, and Imports Prices

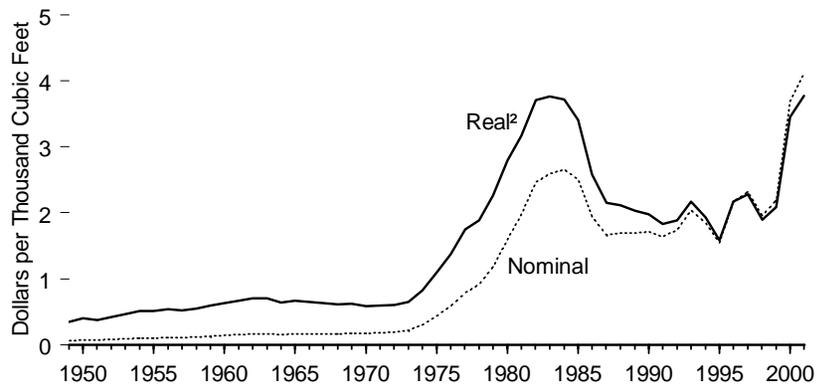
Wellhead, City Gate, and Imports, 2001



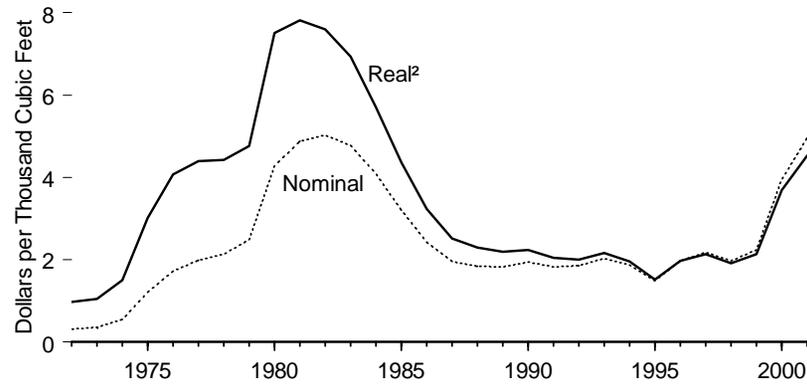
Wellhead, City Gate, and Imports, 1949-2001



Wellhead, 1949-2001



Imports, 1972-2001



¹ Nominal dollars.

² In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 6.7.

Table 6.7 Natural Gas Wellhead, City Gate, and Imports Prices, 1949-2001

(Dollars per Thousand Cubic Feet)

Year	Wellhead ¹		City Gate		Imports	
	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²
1949	0.06	0.35	NA	NA	NA	NA
1950	0.07	0.40	NA	NA	NA	NA
1951	0.07	0.37	NA	NA	NA	NA
1952	0.08	0.42	NA	NA	NA	NA
1953	0.09	0.47	NA	NA	NA	NA
1954	0.10	0.51	NA	NA	NA	NA
1955	0.10	0.51	NA	NA	NA	NA
1956	0.11	0.54	NA	NA	NA	NA
1957	0.11	0.52	NA	NA	NA	NA
1958	0.12	0.55	NA	NA	NA	NA
1959	0.13	0.59	NA	NA	NA	NA
1960	0.14	0.63	NA	NA	NA	NA
1961	0.15	0.67	NA	NA	NA	NA
1962	0.16	0.70	NA	NA	NA	NA
1963	0.16	0.70	NA	NA	NA	NA
1964	0.15	0.64	NA	NA	NA	NA
1965	0.16	0.67	NA	NA	NA	NA
1966	0.16	0.65	NA	NA	NA	NA
1967	0.16	0.63	NA	NA	NA	NA
1968	0.16	0.61	NA	NA	NA	NA
1969	0.17	0.62	NA	NA	NA	NA
1970	0.17	0.58	NA	NA	NA	NA
1971	0.18	0.59	NA	NA	NA	NA
1972	0.19	0.60	NA	NA	0.31	0.97
1973	0.22	0.65	NA	NA	0.35	1.04
1974	0.30	0.82	NA	NA	0.55	1.50
1975	0.44	1.10	NA	NA	1.21	3.02
1976	0.58	1.37	NA	NA	1.72	4.07
1977	0.79	1.75	NA	NA	1.98	4.40
1978	0.91	1.89	NA	NA	2.13	4.42
1979	1.18	2.26	NA	NA	2.49	4.77
1980	1.59	2.79	NA	NA	4.28	7.50
1981	1.98	3.17	NA	NA	4.88	7.82
1982	2.46	3.71	NA	NA	5.03	7.59
1983	2.59	3.76	NA	NA	4.78	6.94
1984	2.66	3.72	3.95	5.53	4.08	5.71
1985	2.51	3.41	3.75	5.09	3.21	4.36
1986	1.94	2.58	3.22	4.28	2.43	3.23
1987	1.67	2.15	2.87	3.70	1.95	2.51
1988	1.69	2.11	2.92	3.64	1.84	2.29
1989	1.69	2.03	3.01	3.61	1.82	2.19
1990	1.71	1.98	3.03	3.50	1.94	2.24
1991	1.64	1.83	2.90	3.23	1.83	2.04
1992	1.74	1.89	3.01	3.28	1.85	2.01
1993	2.04	2.17	3.21	3.41	2.03	2.16
1994	1.85	1.93	3.07	3.20	1.87	1.95
1995	1.55	1.58	2.78	2.83	1.49	1.52
1996	2.17	2.17	3.34	3.34	1.97	1.97
1997	2.32	2.28	3.66	3.59	2.17	2.13
1998	^R 1.96	^R 1.90	3.07	2.97	1.97	1.91
1999	^R 2.19	^R 2.09	^R 3.10	^R 2.96	2.24	2.14
2000	^R 3.69	^R 3.45	^R 4.62	^R 4.32	^R 3.95	^R 3.69
2001	^E 4.12	^E 3.77	5.83	5.33	^E 4.95	^E 4.53

¹ See Glossary for definition of Natural Gas Wellhead Price.

² In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Appendix Table E1.

R=Revised. E=Estimate. NA=Not available.

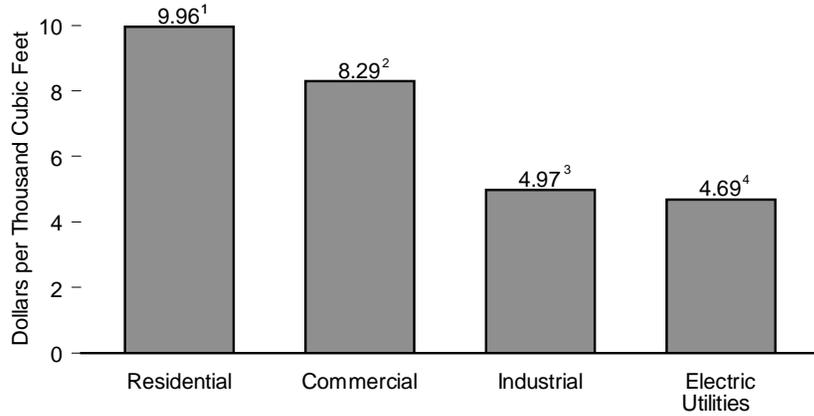
Web Page: http://www.eia.doe.gov/oil_gas/natural_gas/info_glance/natural_gas.html.

Sources: • 1949-1994—Energy Information Administration (EIA), *Natural Gas Annual 2000* (November 2001), Table 96. • 1995 forward—EIA, *Natural Gas Monthly* (March 2002), Table 4.

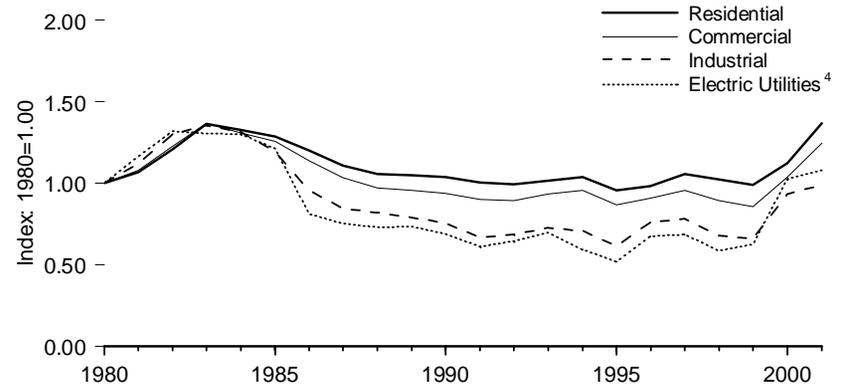
City Gate: • 1984-1994—EIA, *Natural Gas Annual 2000* (November 2001), Table 96. • 1995 forward—EIA, *Natural Gas Monthly* (March 2002), Table 4. **Imports:** • 1972 and 1973—Federal Power Commission (FPC), *Pipeline Imports and Exports of Natural Gas - Imports and Exports of LNG*. • 1974-1976—FPC, *United States Imports and Exports of Natural Gas*, annual reports. • 1977-1994—EIA, *Natural Gas Annual*, annual reports. • 1995 forward—EIA, *Natural Gas Monthly* (March 2002), Table 5.

Figure 6.8 Natural Gas Prices by Sector

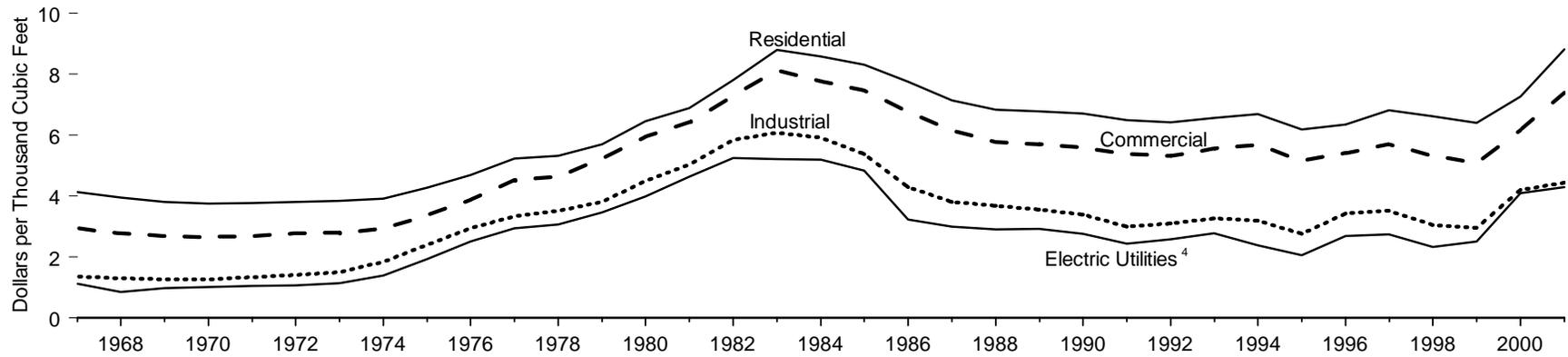
Nominal Prices, 2001



Real Prices,⁵ Indexed, 1980-2001



Real Prices,⁵ 1967-2001



¹Based on 92.1 percent of volume delivered.

²Based on 62.4 percent of volume delivered.

³Based on 16.5 percent of volume delivered.

⁴Based on all steam-electric utility plants with a combined capacity of 50 megawatts or greater.

⁵In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

Source: Table 6.8.

Table 6.8 Natural Gas Prices by Sector, 1967-2001

(Price: Dollars per Thousand Cubic Feet; Share of Total Volume Delivered: Percentage)

Year	Residential			Commercial ¹			Industrial ²			Vehicle Fuel ³			Electric Utilities	
	Prices		Share of Total Volume Delivered	Prices		Share of Total Volume Delivered	Prices		Share of Total Volume Delivered	Prices		Share of Total Volume Delivered	Prices ⁴	
	Nominal	Real ⁵		Nominal	Real ⁵		Nominal	Real ⁵		Nominal	Real ⁵		Nominal	Real ⁵
1967	1.04	4.13	NA	0.74	2.94	NA	0.34	1.35	NA	NA	NA	NA	0.28	1.11
1968	1.04	3.95	NA	0.73	2.78	NA	0.34	1.29	NA	NA	NA	NA	0.22	0.84
1969	1.05	3.81	NA	0.74	2.68	NA	0.35	1.27	NA	NA	NA	NA	0.27	0.98
1970	1.09	3.75	NA	0.77	2.65	NA	0.37	1.27	NA	NA	NA	NA	0.29	1.00
1971	1.15	3.77	NA	0.82	2.69	NA	0.41	1.34	NA	NA	NA	NA	0.32	1.05
1972	1.21	3.80	NA	0.88	2.77	NA	0.45	1.41	NA	NA	NA	NA	0.34	1.07
1973	1.29	3.84	NA	0.94	2.80	NA	0.50	1.49	NA	NA	NA	NA	0.38	1.13
1974	1.43	3.90	NA	1.07	2.92	NA	0.67	1.83	NA	NA	NA	NA	0.51	1.39
1975	1.71	4.27	NA	1.35	3.37	NA	0.96	2.40	NA	NA	NA	NA	0.77	1.92
1976	1.98	4.68	NA	1.64	3.88	NA	1.24	2.93	NA	NA	NA	NA	1.06	2.51
1977	2.35	5.22	NA	2.04	4.53	NA	1.50	3.33	NA	NA	NA	NA	1.32	2.93
1978	2.56	5.31	NA	2.23	4.62	NA	1.70	3.52	NA	NA	NA	NA	1.48	3.07
1979	2.98	5.70	NA	2.73	5.22	NA	1.99	3.81	NA	NA	NA	NA	1.81	3.46
1980	3.68	6.45	NA	3.39	5.94	NA	2.56	4.49	NA	NA	NA	NA	2.27	3.98
1981	4.29	6.88	NA	4.00	6.41	NA	3.14	5.03	NA	NA	NA	NA	2.89	4.63
1982	5.17	7.80	NA	4.82	7.28	NA	3.87	5.84	85.1	NA	NA	NA	3.48	5.25
1983	6.06	8.80	NA	5.59	8.12	NA	4.18	6.07	80.7	NA	NA	NA	3.58	5.20
1984	6.12	8.57	NA	5.55	7.77	NA	4.22	5.91	74.7	NA	NA	NA	3.70	5.18
1985	6.12	8.31	NA	5.50	7.46	NA	3.95	5.36	68.8	NA	NA	NA	3.55	4.82
1986	5.83	7.74	NA	5.08	6.75	NA	3.23	4.29	59.8	NA	NA	NA	2.43	3.23
1987	5.54	7.14	NA	4.77	6.15	93.1	2.94	3.79	47.4	NA	NA	NA	2.32	2.99
1988	5.47	6.82	NA	4.63	5.77	90.7	2.95	3.68	42.6	NA	NA	NA	2.33	2.90
1989	5.64	6.77	99.9	4.74	5.69	89.1	2.96	3.55	36.9	NA	NA	NA	2.43	2.92
1990	5.80	6.70	99.3	4.83	5.58	86.6	2.93	3.39	35.2	3.39	3.92	NA	2.38	2.75
1991	5.82	6.49	99.2	4.81	5.36	85.1	2.69	3.00	32.7	3.96	4.42	NA	2.18	2.43
1992	5.89	6.41	99.1	4.88	5.31	83.2	2.84	3.09	30.3	4.05	4.41	NA	2.36	2.57
1993	6.16	6.55	99.1	5.22	5.55	83.9	3.07	3.26	29.7	4.27	4.54	87.8	2.61	2.78
1994	6.41	6.68	99.1	5.44	5.67	79.3	3.05	3.18	25.5	4.11	4.28	86.9	2.28	2.37
1995	6.06	6.18	99.1	5.05	5.15	76.7	2.71	2.76	24.5	3.98	4.06	86.6	2.02	2.06
1996	6.34	6.34	99.1	5.40	5.40	77.6	3.42	3.42	19.4	4.34	4.34	94.0	2.69	2.69
1997	6.94	6.81	98.8	5.80	5.69	70.8	3.59	3.52	18.1	4.44	4.36	89.7	2.78	2.73
1998	6.82	6.61	97.7	5.48	5.31	67.0	3.14	3.04	16.1	4.59	4.45	85.4	2.40	2.33
1999	6.69	6.39	95.2	5.33	5.09	66.2	3.10	2.96	17.4	4.34	^R 4.15	85.6	2.62	2.50
2000	^R 7.76	^R 7.25	92.5	^R 6.59	^R 6.16	^R 62.9	^R 4.48	^R 4.19	^R 18.1	^R 5.54	^R 5.18	^R 72.7	^R 4.38	^R 4.09
2001	^P 9.96	^P 9.11	^E 92.1	^P 8.29	^P 7.58	^E 62.4	^P 4.97	^P 4.54	^E 16.5	NA	NA	NA	^E 4.69	^E 4.29

¹ Includes deliveries to municipalities and public authorities for institutional heating and other purposes.

² Most volumes and associated revenues for deliveries to nonutility power producers are included in the industrial sector. In instances where the nonutility is primarily a commercial establishment, volumes and associated revenues are included in the calculation of commercial prices.

³ Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily or exclusively by respondents' fleet vehicles. Thus, the prices are often those associated with the operation of fleet vehicles.

⁴ Based on all steam-electric utility plants with a combined capacity of 50 megawatts or greater.

⁵ In chained (1996) dollars, calculated by using gross domestic product implicit price deflators. See Table E1.

R=Revised. P=Preliminary. E=Estimate. NA=Not available.

Notes: • Natural gas includes supplemental gaseous fuels. • Residential, commercial, and industrial price data represent prices of natural gas sold and delivered by local distribution companies to residential, commercial, and industrial consumers, respectively. The data do not reflect prices of natural gas transported for the account of others. • The average for each end-use sector is calculated by dividing the total value of the gas consumed by each sector by the total quantity consumed. See Note at end of section.

Web Page: http://www.eia.doe.gov/oil_gas/natural_gas/info_glance/natural_gas.html.

Sources: **Vehicle Fuel:** 1990-2000—Energy Information Administration (EIA), *Natural Gas Annual*, annual reports. **All Other Data:** • 1967-1994—EIA, *Natural Gas Annual*, annual reports. • 1995 forward—EIA, *Natural Gas Monthly* (March 2002), Table 4.

Natural Gas

Table 6.5 Notes

1. See Table 8.3a for the amount of natural gas used to produce electricity and Table 8.3d for the amount of natural gas used to produce useful thermal output at combined-heat-and-power (CHP) plants. See Appendix G for the “Classification of Power Plants into Energy-Use Sectors,” and Appendix H, “Estimating and Presenting Power Sector Fuel Use in EIA Publications and Analyses,” for a description of revised electric power statistics in this report.

2. Natural gas consumption statistics are compiled from surveys of natural gas production, transmission, and distribution companies and from surveys of electric power generation. Consumption by sector from these surveys is compiled on a national and individual State basis and then balanced with national and individual State supply data. Included in the data are the following: **Residential Sector**—Consumption by private households for space heating, cooking, and other household uses; **Commercial Sector**—Consumption by nonmanufacturing establishments, by municipalities for institutional heating and lighting, and those engaged in agriculture, forestry, and fishing (through 1995). The commercial sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments; **Industrial Sector**—Consumption by establishments engaged primarily in processing unfinished materials into another form of product (includes mining, petroleum refining, manufacturing, and agriculture, forestry, and fishing (beginning in 1996), and natural gas industry use for lease and plant fuel). The industrial sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities; **Transportation Sector**—Natural gas transmission (pipeline) fuel, and natural gas delivered for use as vehicle fuel; and **Electric Power Sector (electric utilities and independent power producers)**—Consumption for electricity generation and useful thermal output at electricity-only and CHP plants whose primary business is to sell electricity, or electricity and heat, to the public—i.e., NAICS 22 plants.

3. Prior to 1993, deliveries to nonutility generators were not separately collected from natural gas companies on Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition.” As a result, for 1989 through 1992, those volumes are probably included in both the industrial and electric power sectors and double-counted in total consumption.

In 1993, 0.28 trillion cubic feet was reported as delivered to nonutility generators.

4. Beginning with 1965, all volumes are shown on a pressure base of 14.73 p.s.i.a. at 60° F. For prior years, the pressure base was 14.65 p.s.i.a. at 60° F.

5. Totals may not equal sum of components due to independent rounding.

Table 6.5 Web Page

http://www.eia.doe.gov/oil_gas_/natural_gas/info_glance/natural_gas.html.

Table 6.5 Sources

Residential, Commercial Total, and Lease and Plant Fuel 1949-2000; Pipeline Fuel 1950-2000; Other Industrial Total and Total Consumption 1949-1992: Energy Information Administration (EIA), *Natural Gas Annual 2000* (November 2001), Table 95.

Residential, Commercial Total, Pipeline Fuel 2001; Other Industrial Total 1993-2001: EIA, Form EIA-176, “Annual Report of Natural Gas and Supplemental Gas Supply and Disposition.” **Lease and Plant Fuel 2001:** EIA, *Natural Gas Monthly* (May 2002), Table 3.

CHP and Electric Power Sector: Tables 8.3b-8.3c. **Vehicle Fuel:** 1990-1991—EIA, *Natural Gas Annual 2000* (November 2001), Table 95. 1992-1995—Science Applications International Corporation, “Alternative Transportation Fuels and Vehicles Data Development,” unpublished final report prepared for EIA (McLean, VA, July 1996) and U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy. 1996-2001—EIA, Office of Coal, Nuclear, Electric, and Alternate Fuels.

All Other Data: Calculated.